

NON-AQUEOUS ELECTROLYTIC SOLUTION AND LITHIUM SECONDARY BATTERY USING IT

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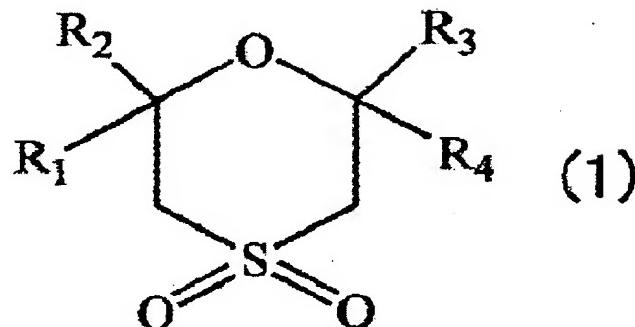
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Abstract of JP2004265848

PROBLEM TO BE SOLVED: To provide a lithium secondary battery superior in a high temperature shelf life and trickle charging characteristic, and a nonaqueous electrolytic solution used in it.

SOLUTION: This solution consists primarily of lithium salt and a nonaqueous organic solvent to solve it, and furthermore, 0.01 to 10 wt% of 1,4 thioxane derivative expressed by a general formula (1), and 0.01 to 10 wt% of unsaturated carbonate are contained in the electrolytic solution. Here in the formula, R₁ to R₄ respectively express hydrogen atoms or hydrocarbon groups of carbon numbers 1 to 8 independently. Furthermore, R₁ and R₂, as well as R₃ and R₄ respectively may be bonded and form a ring mutually, and R₂ and R₃ may be also bonded mutually.

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